

FIG. 1A

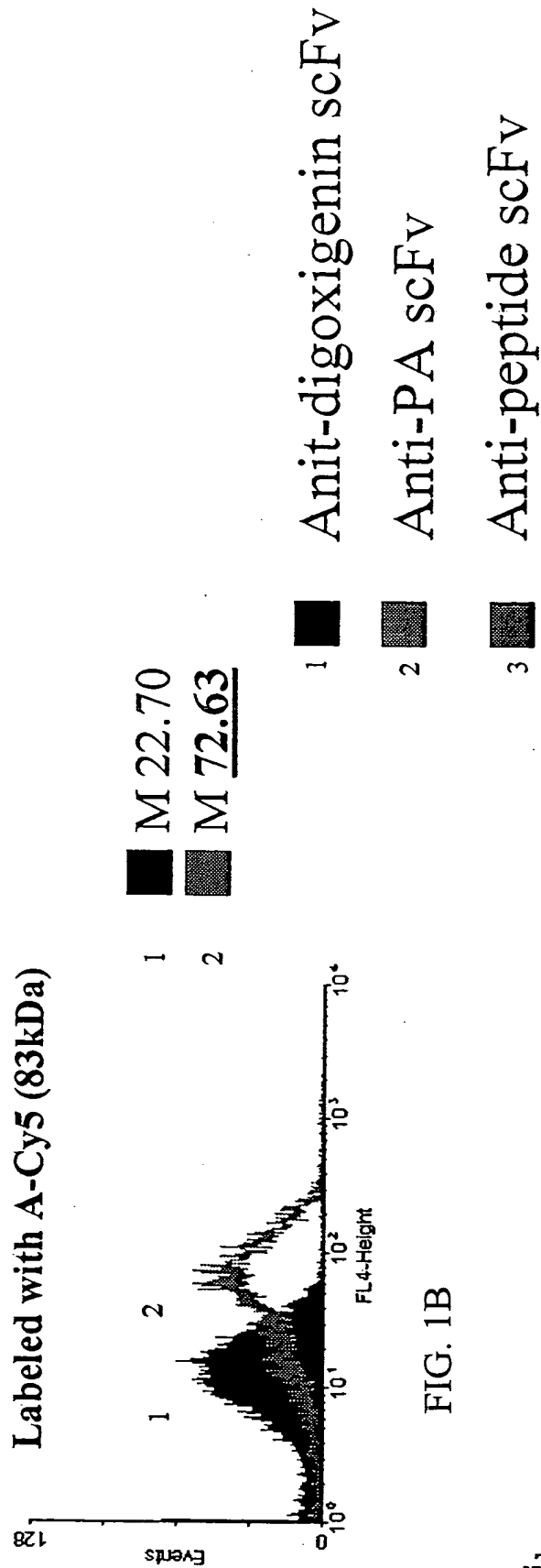
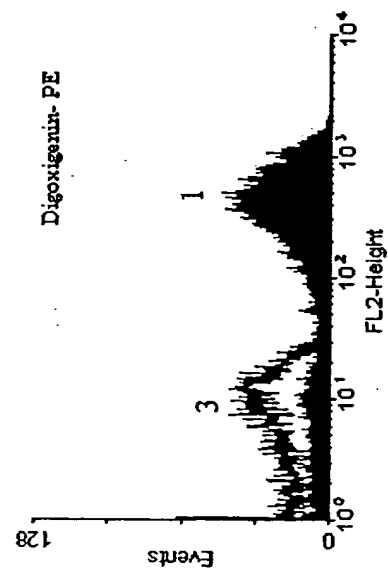


FIG. 1B



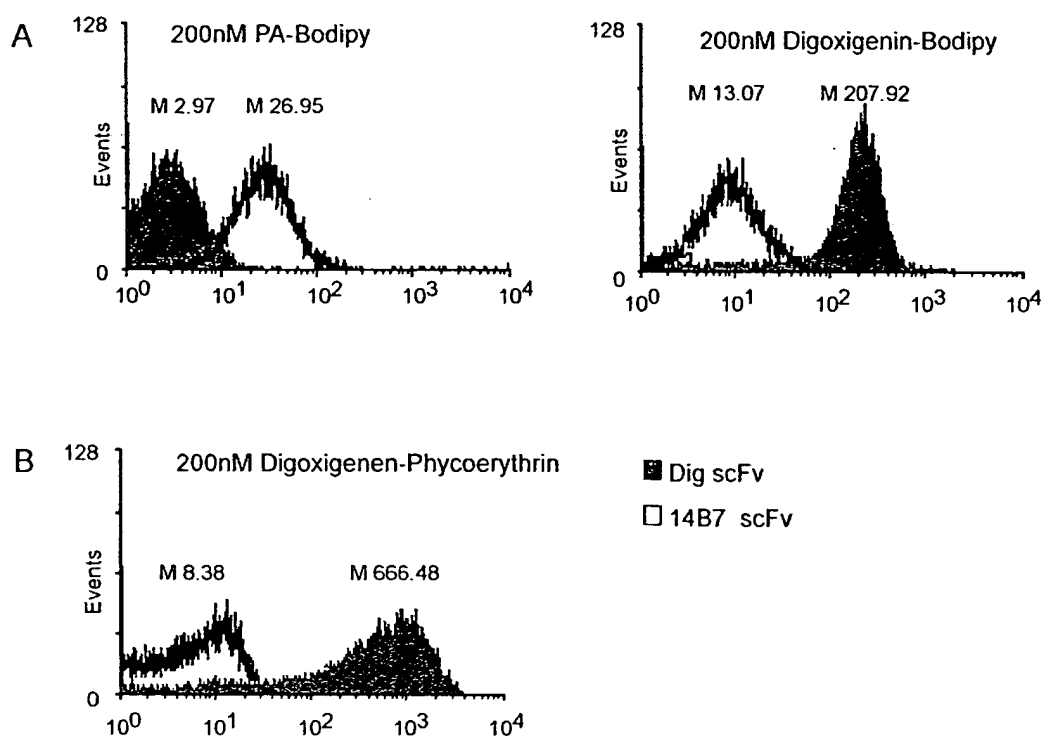


FIG. 2A, B

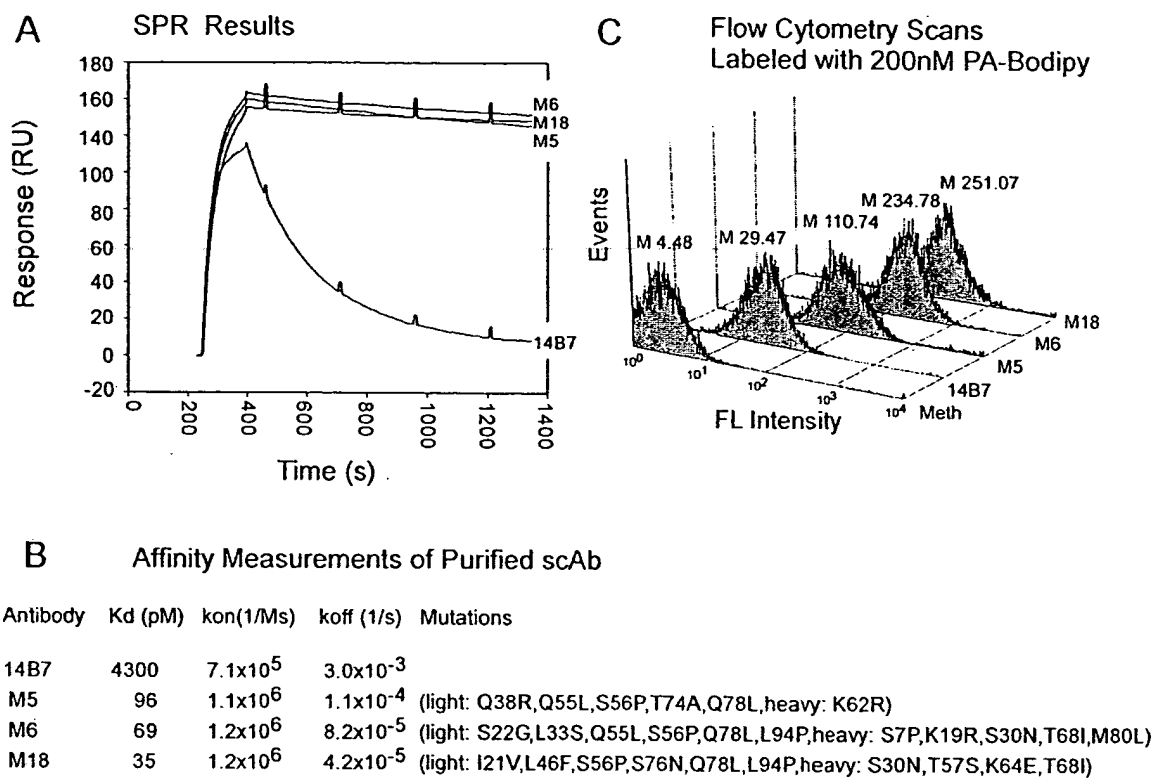
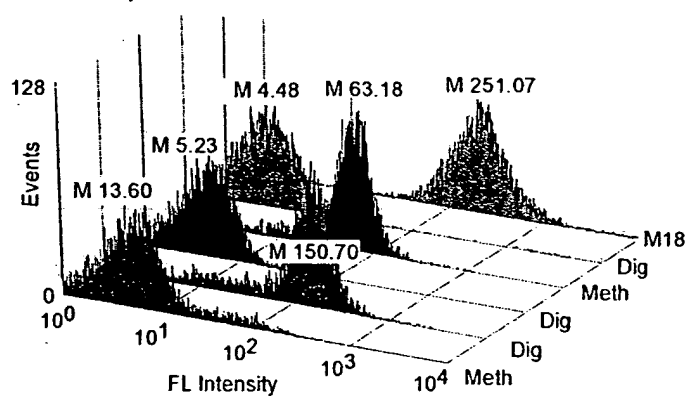
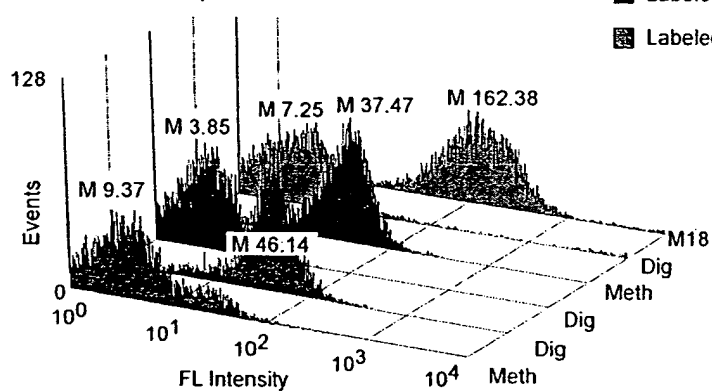


FIG. 3A-C

### A NlpA anchored scFvs

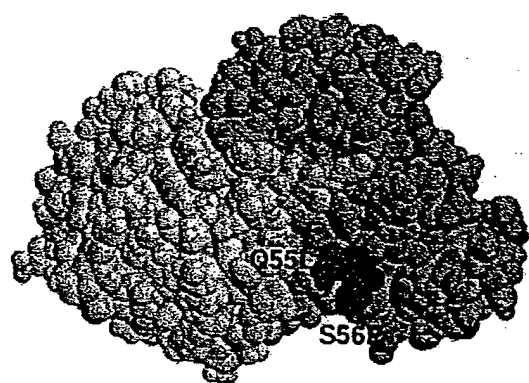


### B Gene III protein anchored scFvs

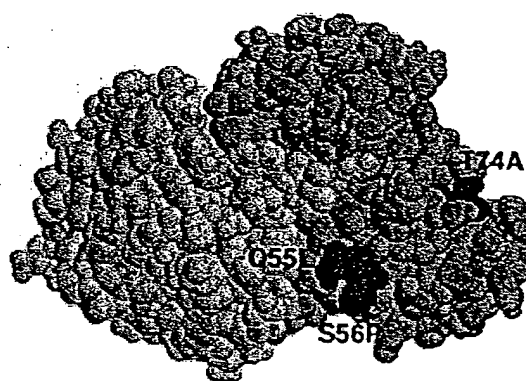


- Labeled with 200nM Digoxigenin-Bodipy
- Labeled with 200nM Methamphetamine-Fluorescein
- Labeled with 200nM PA-Bodipy

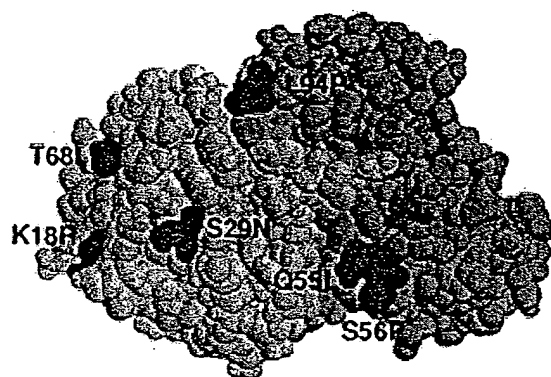
FIG. 4A, B



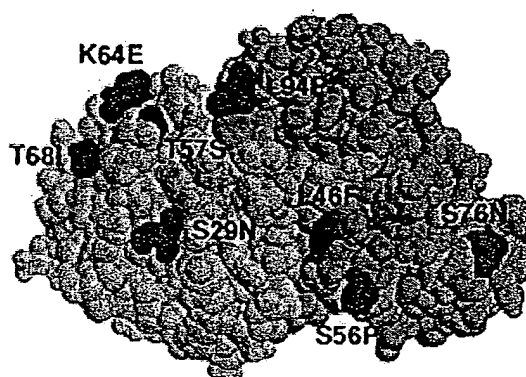
1H  $K_D = 260$  pM



M5  $K_D = 96$  pM



M6  $K_D = 69$  pM



M18  $K_D = 35$  pM

FIG. 5

	Variable Light
14B7scFv	DIQMTQTSSLSASLGDRVTISCRASQDIRNYLNWYQQKPDGTVKLLIYYTSRLQSGVPSRFRSGSGGTDYSLTISNQEDEDIGTYFCQQGNTLPWTFGGGTKLEIKR
M18scFv	DIQMTQTSSLSASLGDRVTVSCRASQDIRNYLNWYQQKPDGTVKFLIYYTSRLQPGVPSRFRSGSGGTDYSLTINNLEQEDIGTYFCQQGNTPPWTFGGGTKLEIKR
	Linker
14B7scFv	GGGGSGGGGGGGGGGGGGG
M18scFv	GGGGSDGGGGGGGGGGGGG
	Variable Heavy
14B7scFv	EVQLQQSGPELVKPGASVKISCKDSGYAFSSSWMNWVKQRPQGQGLEWIGRIYPGQGDNTNYNGKFKGKATLTADKSSSTAYMQLSSLTSVDSAVYFCARSGLLRYAMDYWGQGTSTVTVSS
M18scFv	EVQLQQSGPELVKPGASVKISCKDGYAFNSSWMNWKQRPQGQGLEWIGRIYPGQGDNSNYNGKFEGKALTADKSSSTAYMQLSSLTSVDSAVYFCARSGLLRYAMDYWGQGTSTVTVSS

FIG. 6